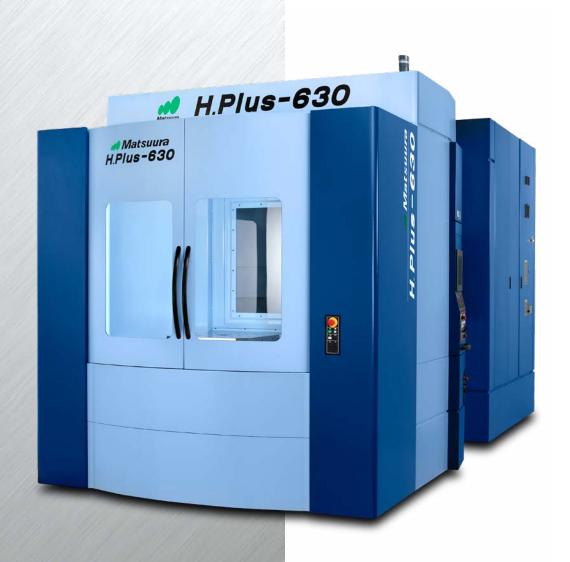
Matsuura ...

H.Plus-630





Matsuura H.Plus-630

Updated and advanced to meet the challenges of today's manufacturers; the best in class just got better

 Equipped with a new operation panel with a 15-inch touchscreen for improved operability and visibility.

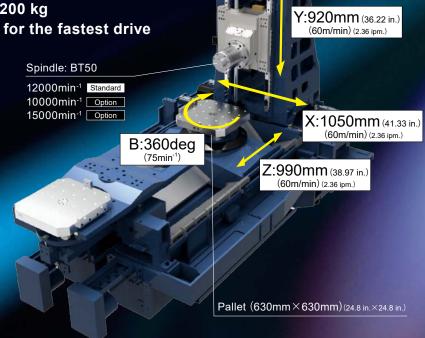
New Matrix tool changers-large capacity and high speed options.

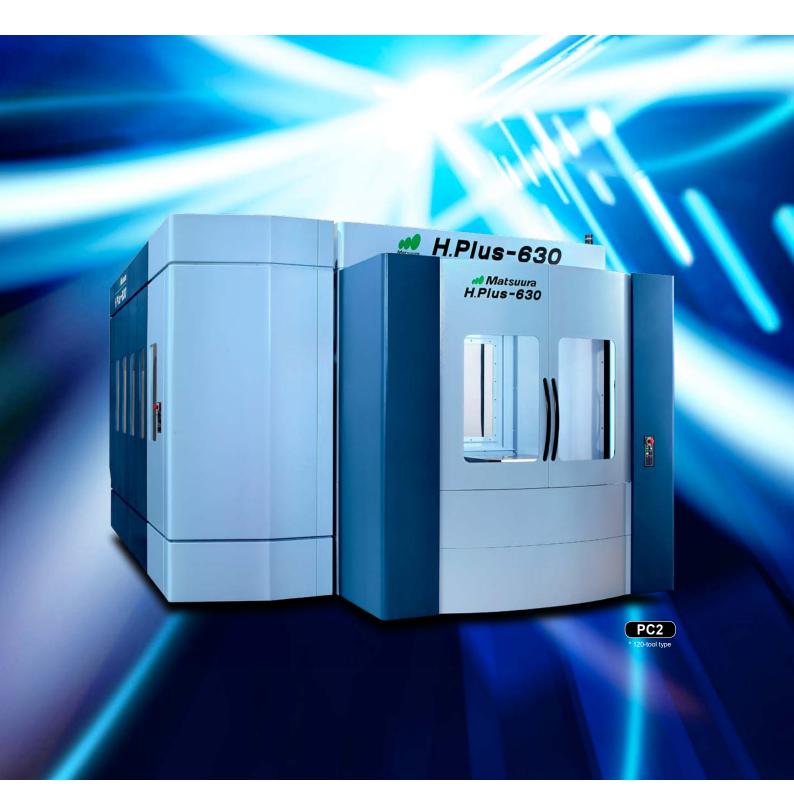
Features

- 700 N·m high-torque spindle (10000 min⁻¹ Option)
- Workpiece size: φ1050 x H1115 mm, 1200 kg
- The B axis uses a DD motor (75 min⁻¹) for the fastest drive in the class.
- 60 m/min on X, Y and Z axes, the fastest in the class.

Max. Workpiece Size





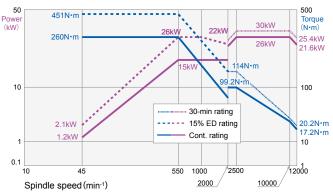


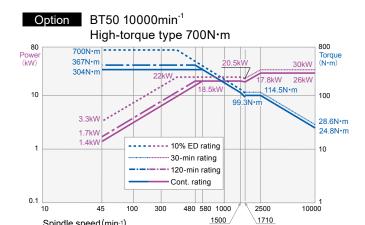


MAXIA Spindles; Renowned for maximum performance and durability in even the most arduous machining environments

Choose from 3 handcrafted BT50 spindles types-designed, manufactured and tested in house at Matsuura.

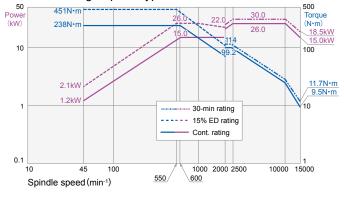






Spindle speed (min-1)

Option BT50 15000min⁻¹ High-speed type





All manufacturing processes are handled in-house, from spindle design to machining, assembly and inspection

■ Cutting test results (BT50 12000min⁻¹) Standard

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	Workpiece material	Tool details	Cutting width Cutting depth	Spindle speed	Cutting feed rate	Cutting capacity		Workpiece material	Tool details	Spindle speed	Cutting feed rate	Cutting capacity
Facemill	Aluminum	Ø100mm (3.93) 4-flute	W=80mm (3.14) D=5mm (0.19)	5500 min ⁻¹	9000 mm/min (354.33)	3600 cc/min	Drill	Aluminum	Ø52mm (2.04)	1500 min ⁻¹	400 mm/min (15.74)	849 cc/min
	Steel	Ø125mm(4.92) 9-flute	W=90mm(3.54) D=7mm(0.27)	550 min ⁻¹	900mm/min (35.43)	567 cc/min		Steel	Ø52mm (2.04)	1500 min ⁻¹	220 mm/min (8.66)	467
		Ø80mm(3.14) 6-flute	W=70mm(2.75) D=4mm(0.15)	900 min ⁻¹	2600mm/min (102.36)	728 cc/min						cc/min
Endmill	Aluminum	Ø25mm (0.98) 2-flute	W=20mm (0.78) D=15mm (0.59)	12000 min ⁻¹	7000 mm/min (275.59)	2100 cc/min	Tap	Aluminum	M42 × P4.5	120 min ⁻¹	540 mm/min (21.25)	
w	Steel	Ø25mm (0.98) 4-flute	W=3mm (0.11) D=40mm (1.57)	5500 min ⁻¹	6000 mm/min (236.22)	720 cc/min		Steel	M42 × P4.5	80 min ⁻¹	360 mm/min (14.17)	

^{*} The data above are examples of actual results. Under different conditions, it may not be possible to achieve the data stated in this catalog.

Standard Feature; Direct Drive Rotary Indexing Table

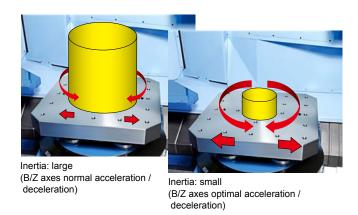
Rotary Indexing Table Utilizing a DD Motor

The Direct Drive motor (75 min⁻¹) delivers high speed operation with unerring acceleration and precision. The non-contact design is low noise and maintenance free.



ADC (Automatic Acc. & Dec. Control) Automatic Acceleration and Deceleration Control Function

A function that automatically tunes the B-axis / Z-axis acceleration and deceleration according to the workpiece inertia is adopted (implemented during ATC operation). It reduces indexing time by up to 35%.



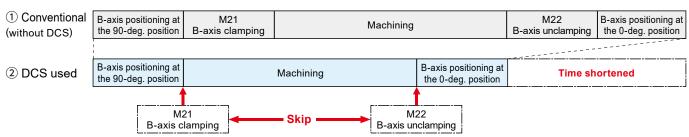
DCS (Dynamic Clamp System)

The key to shorter indexing times is the table clamping/unclamping time.

Matsuura's DCS function is the world's first revolutionary clamping system. The load level applied to the DD motor is monitored, and the table is clamped only when the load level has exceeded the setting value. The table remains unclamped even during machining as long as the load level is within the preset load range.

- Within the preset load range ⇒ Machining with the table unclamped (M21 and M22 skipped for light machining)
- Load range exceeding the setting value ⇒ Machining with the table clamped (M21 and M22 not skipped for heavy machining)

■ Light machining



Expandable to Handle Prolonged Unmanned Operation A wealth of multi-tool/multi-pallet options are available.

60-tool Drum Magazine

Standard

A servo-driven 60 tool capacity drum magazine is standard on the **H-Plus-630**. Compared to other ATC configurations of equal capacity on the market, this Matsuura design delivers a 50% reduction in operating noise & offers high speed & highly accurate indexing.



120-tool Chain Magazine

Option

Chain type ATC; reduces tool indexing time by 20%, enhancing high speed production runs that require fast tool changes during short machining operations.





Matrix Magazines

Option

Faster tool transport with the servo-driven tool transfer arm. The "209-tool high-speed type", and "245-tool large-capacity type" are available for selection according to requirements. This strengthens support for multiproduct variable-quantity production, prolonged unmanned operation, and high-speed machining.

Matrix Magazine	
	Capacity up to 209 tools (114 / 144 / 174 / 209)
High-speed type	Tool transfer time shortened by optimizing the tool rack arrangement
Large- capacity type	Capacity up to 245 tools (120 / 150 / 180 / 210 / 245)





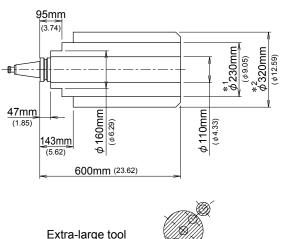


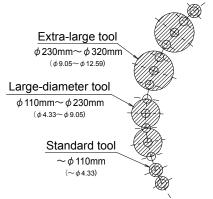
Maximum tool size

(in.)

PC6 Floor Pallet System

Option





PC6

Tool shank	JIS B 6339 Tool Shank 50T
Pullstud	JIS B 6339 Pullstud 50P
Max. tool diameter	Ø110mm (Ø4.33) Ø230mm (Ø9.05) (*1. No adjacent tool/with specified storage space) Ø320mm (Ø12.59) (*2. No adjacent tool/with specified storage space) * Tools with Ø320 mm (12.59) in diameter can be mounted side by side, provided that two empty pots are required between them.
Max. tool length	600mm (23.62)
Max. tool math	20kg (44 lb.) (The tool moment load must not exceed 2 kgm.)

Pressure Supply for Fixtures-Feature* Option

A through pallet pressure supply feature as an option is available on the **H.Plus-630**.

* Please note; if the through pallet pressure supply feature is selected as an option the supply source, solenoid valves, pressure switches, gap sensors, joints and hoses are not supplied as standard.

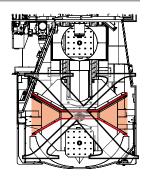
	Number of ports	Pressure (MPa)
1. Work station side	2 ports	Max.19.6
2. Machine side	2 ports	Max.19.6

Matsuura's unique X & W structure

- superb chip and swarf management.

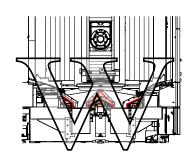
X-type APC Door

Separating the APC set up station from the machining enclosure is Matsuura's X Type door configuration. This unique design prevents chip build up and accumulation and is designed to handle the high metal removal rates generated by the **H.Plus-630**.



W-type Slide Cover

The W Type configuration with robust telescopic facilitates the fast and efficient evacuation of chips and swarf from the machining enclosure-even at the highest volume of metal removal.



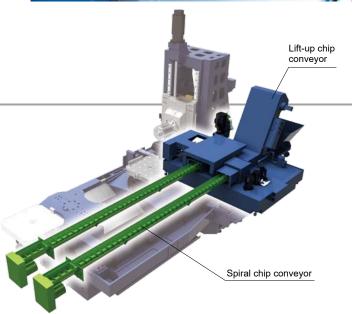




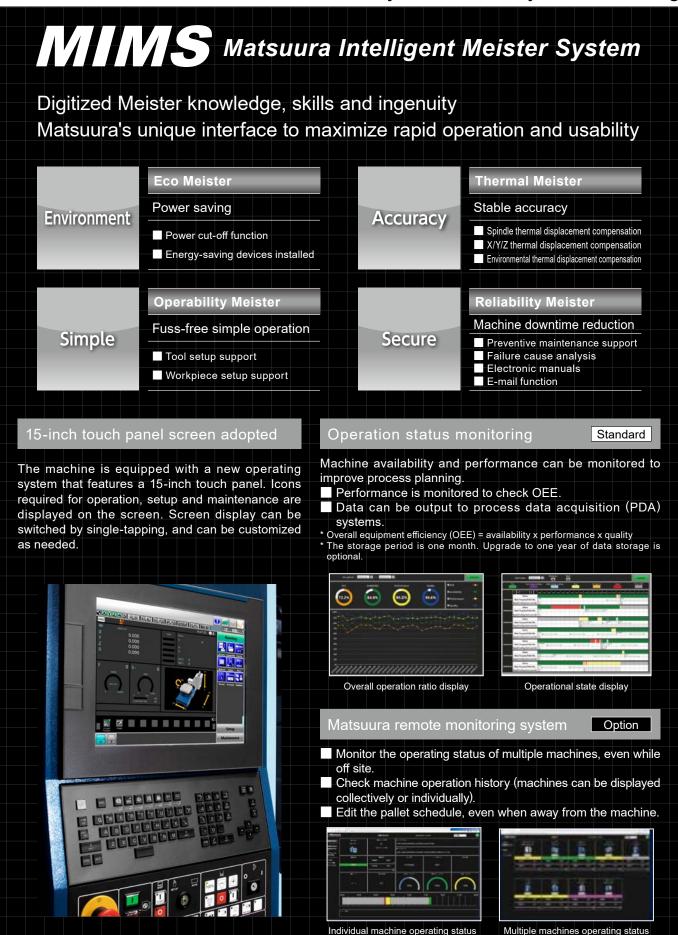
Spiral Chip Conveyor Lift-up Chip Conveyor



Spiral chip conveyors are provided as standard in the gutters to transport chips smoothly to a tank at the rear of the machine. Chip disposal can be automated by installing the optional lift-up chip conveyor.



MIMS with New Features for Safety and Security of Machining

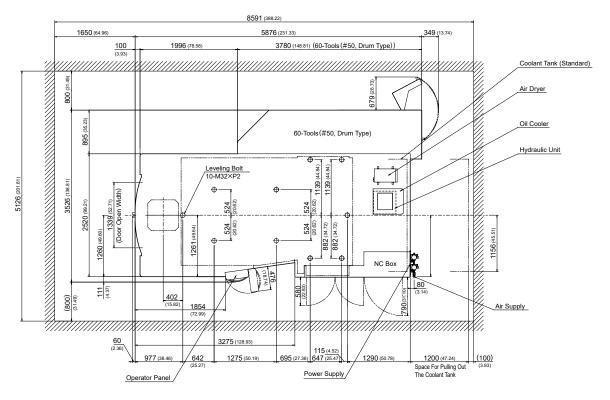


Standard Machine Specifications

■ Movement and Range						
X-Axis Travel		mm (in.)	1050 (41.33)			
Y-Axis Travel		mm (in.)	920 (36.22)			
Z-Axis Travel		mm (in.)				
B-Axis Rotation A	nale	deg	360			
Pallet	uigic	ucg	000			
Working Surface		mm (in.)	630×630 (24.8×24.8)			
Loading Capacity	,	kg (lb.)	1200 (2640)			
Max. Workpiece S		mm (in.)	φ 1050×H1115 (φ41.33×H43.89)			
■ Spindle	J.20	111111 ()	φ 1000 111110 (φ 11100 111000)			
Spindle Speed		min ⁻¹	45 - 12000 (Oil-Air Lubrication System)			
Spindle Taper			7/24 taper # 50 (BT Double Face Contact)			
Spindle Bearing Inner	- Diameter	mm (in.)	φ 100 (φ 3.93)			
Opinial Dearing limes	Diameter	11111 ()	AC 15 / 26 (Low Speed: Continuous/15%)			
Spindle Motor Output		kW	AC 26 / 30 (High Speed: Continuous/60%)			
Max. Spindle Torq	ue	N∙m	451 / 550min ⁻¹			
■ Feed Rate						
Rapid Traverse Rate	X/Y/Z	mm/min (ipm)	60000 / 60000 / 60000 (2362.2 / 2362.2 / 2362.2)			
	В	min ⁻¹	75			
Feed Rate	X/Y/Z	mm/min (ipm)	1 - 60000 (0.03-2362.2)			
	В	min ⁻¹	0 - 75			
■ Automatic Too	■ Automatic Tool Changer					
Type of Tool Shar	nk	_	JIS B 6339 tool shank 50T			
Pullstud		_	JIS B 6339 pullstud 50P			
Tool Storage Cap	acity	pcs.	60			
Max. Tool Diamet	Max. Tool Diameter		φ 110 (φ4.33) (Adjacent tool exists) φ 320 (φ12.59) (No adjacent tool)			
Max. Tool Length	Max. Tool Length		600 (23.62)			
Max. Tool Mass	Max. Tool Mass		20 (44) (Tool moment load to be less than 2 kgm)			
Methods of Tool Selection		_	Fixed address (Rack type ATC magazine: fixed address)			
Tool Changing Tir Tool to Tool	me:	sec	2.2 (When tool mass is 10 kg or less) 3.1 (When tool mass is over 10 kg)			

■ Automatic Pallet Chang	er					
Number of Pallets	pallets	2				
■ Power Sources						
Electrical Power Supply	kVA	97 (Depends on the options provided)				
Required Air Volume	NL/min	600				
■ Tank Capacity						
Coolant Tank Capacity	L	600				
■ Machine Size						
Machine Weight	kg (lb.)	21000 (46297)				
■ NC System						
Control System	_	Matsuura G-Tech 31i				
■ Standard Accessories						
01. AD-TAP Function						
02. IPC Function						
03. Auto Grease Supply Unit for Feed Axes						
04. Air Dryer						
05. Spiral Chip Conveyor x 2						
06. M-Code Counter (9 Kinds)						
07. Service Tools and Tool	Вох					
08. Machine Color Paint						
09. Leveling Bolts, Levelin	g Plates					
10. MIMS (Matsuura Intelligent Meister System)						
11. Spindle Thermal Displacement Compensation System						
12. Integrating Spindle Ru	n Hour M	1eter				
13. Integrating Auto Run Hour Meter						
14. Operating Status Monit	toring (O	perating Data Storage Period: 1 Month)				
* 2 years spindle warranty						

Floor Plan Unit: mm (in.)



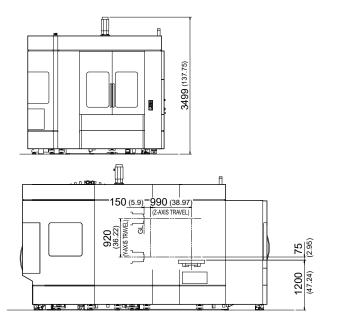
List of Fittings

○: Standard ▲: Option

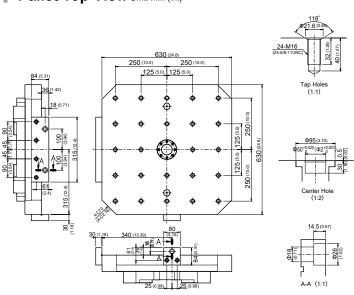
■ Spin							
12000 min ⁻¹ (BT50 Oil-Air Lubrication System)							
	min ⁻¹ (BT50 Oil-Air l			A			
10000 r	10000 min ⁻¹ (BT50 Oil-Air Lubrication System)						
	Spindle motor output	kW	Low: 18.5 / 22、High: 26 / 30				
	Spindle max. torque	N∙m	700 (300min ⁻¹)				
■ ATC							
60 tools	(Drum magazine)						
120 too	ls (Chain magazine	:)					
120 / 15	50 / 180 / 210 / 245	tools (Ma	atrix magazine: 245-tool base)	_			
114 / 14	14 / 174 / 209 tools	(Matrix m	agazine: 209-tool base)	○▲▲			
Max. to	ol mass: 30 kg			•			
■ APC							
PC2				$\overline{}$			
PC6 (FI	loor Pallet System)			_			
■ Palle							
	Working Surface	mm (in.)	630×630 (24.8×24.8)	\top			
□630	Loading Capacity	kg (lb.)	1200 (2640)	\exists			
	Max. Workpiece Size	mm (in.)	φ 1050×H1115 (φ41.33×H43.89)	7			
■ High	-precision Control		· · · · · · · · · · · · · · · · · · ·				
Scale Feedback X/Y/Z							
■ Cool	ant						
Coolant	t Unit			To			
Vacuum	n-Type Coolant Thro	ouah A 7N	ИР а	A			
	n-Type Coolant Thro			A			
	Vacuum-Type Coolant Through B 7MPa						
Vacuum-Type Coolant Through B 14MPa							
Vacuum-Type Coolant Through C 2MPa							
	Vacuum-Type Coolant Through C 7MPa						
	Coolant Flow Checker						
Coolant Shower System							
Mist Separator (without fire damper)							
Mist Separator (with fire damper)							
Coolant Temperature Controller with Tank 100L							
Coolant Temperature Controller with Tank 200L							
	·						

In-Process Measurement / Tool Breakage Detection I.P.Measure/Auto.Centering (Blum, Blum Macro) I.P.Measure/Auto.Centering (Blum, Blum Macro) I.P.Measure/Auto.Centering (Renishaw, Matsuura Macro) I.P.Measure/Auto.Centering (Renishaw, Matsuura Macro) I.P.Measure/Auto.Centering (Renishaw, Renishaw Macro) I.P.Measure/Auto.Centering (Renishaw, Renishaw Macro) I.P.Measure/Auto.Centering (Renishaw, Renishaw Macro) I.P.Measure/Auto.Centering (Renishaw Macro Only) Broken Tool Detection (Metrol) Laser Broken Tool Detection (Blum) Laser Broken Tool Detection (Renishaw) Broken Tool Detection in ATC MG (60T drum) Broken Tool Detection in ATC MG (Matrix MG) ■ Chip Removal Two Spiral Chip Conveyors Lift-Up Conveyor (scraper and drum) Lift-Up Conveyor (scraper and drum) Chip Bucket Air Blow for Chip Removal Workpiece Cleaning Gun (Machine side) Workpiece Cleaning Gun (APC side) 2 MPa External Nozzle (with spindle through) ↑ MPa External Nozzle (with spindle through) ■ Operation / Maintenance Support Work Light Add Optional Block Skip Switch 2-9 3 Sets of Extra M Function Spindle Load Monitoring Function Weekly Timer 3-Color Signal Light (Red, Yellow, Green from Top) Rotary Wiper (Electrical system) AC100V Outlet 3A External Manual Pulse Generator Tool Pre-check Function Pressure Supply System for Fixtures Abobot Interface Operating status monitoring (Storage capacity expansion: 1 year) Matsuura Remote Monitoring System Machine Information Output: MTConnect ■ Safety Device Matsuura Safety Specifications Automatic Fire Extinguisher ■ Optional Package High-speed, High-precision Package		Option
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Laser Broken Tool Detection (Renishaw) Broken Tool Detection in ATC MG (60T drum) Broken Tool Detection in ATC MG (Matrix MG) Chip Removal Two Spiral Chip Conveyors Lift-Up Conveyor (scraper and drum) Lift-Up Conveyor (hinge + scraper and drum) Chip Bucket Air Blow for Chip Removal Workpiece Cleaning Gun (Machine side) Workpiece Cleaning Gun (APC side) 2 MPa External Nozzle (with spindle through) 7 MPa External Nozzle (with spindle through) Work Light Add Optional Block Skip Switch 2-9 8 Sets of Extra M Function Spindle Load Monitoring Function Weekly Timer 3-Color Signal Light (Red, Yellow, Green from Top) Rotary Wiper (Air supply system) Rotary Wiper (Electrical system) AC100V Outlet 3A External Manual Pulse Generator Tool Pre-check Function Pressure Supply System for Fixtures Robot Interface Operating status monitoring System Machine Information Output: MTConnect Safety Device Matsuura Safety Specifications Automatic Fire Extinguisher Optional Package	Laser Broken Tool Detection (Blum)	_
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Automatic Fire Extinguisher ■ Optional Package	■ Safety Device	
■ Optional Package	Matsuura Safety Specifications	0
	Automatic Fire Extinguisher	
High-speed, High-precision Package ▲	■ Optional Package	
	High-speed, High-precision Package	

External View Unit: mm (in.)



Pallet Top View Unit: mm (in.)





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TEL: +1-651-289-9700

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Product specifications and dimensions are sul	bject to change without prior notice.
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• Photos and graphics may show optional accessories.

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